

FIG. 1

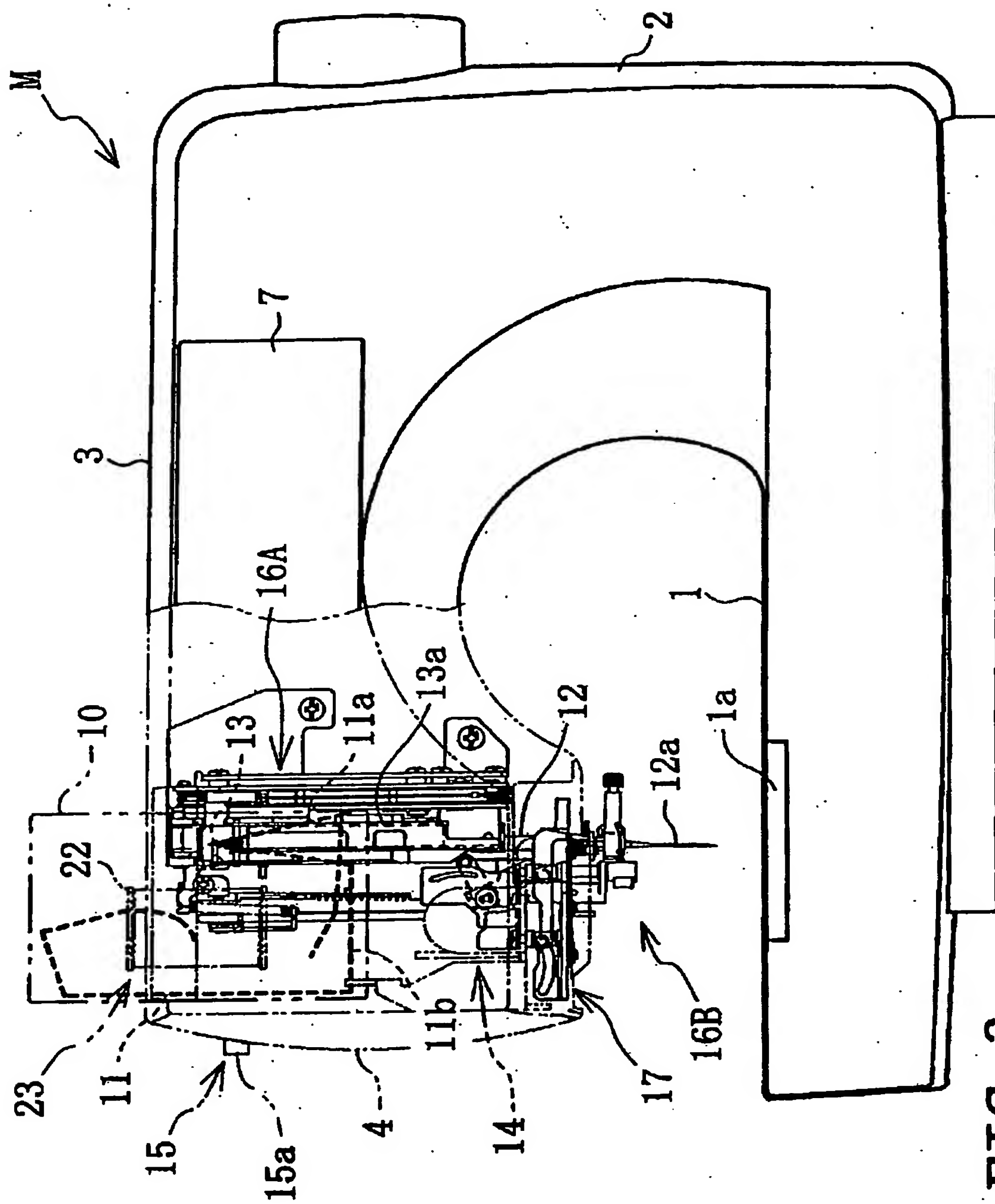


FIG. 2

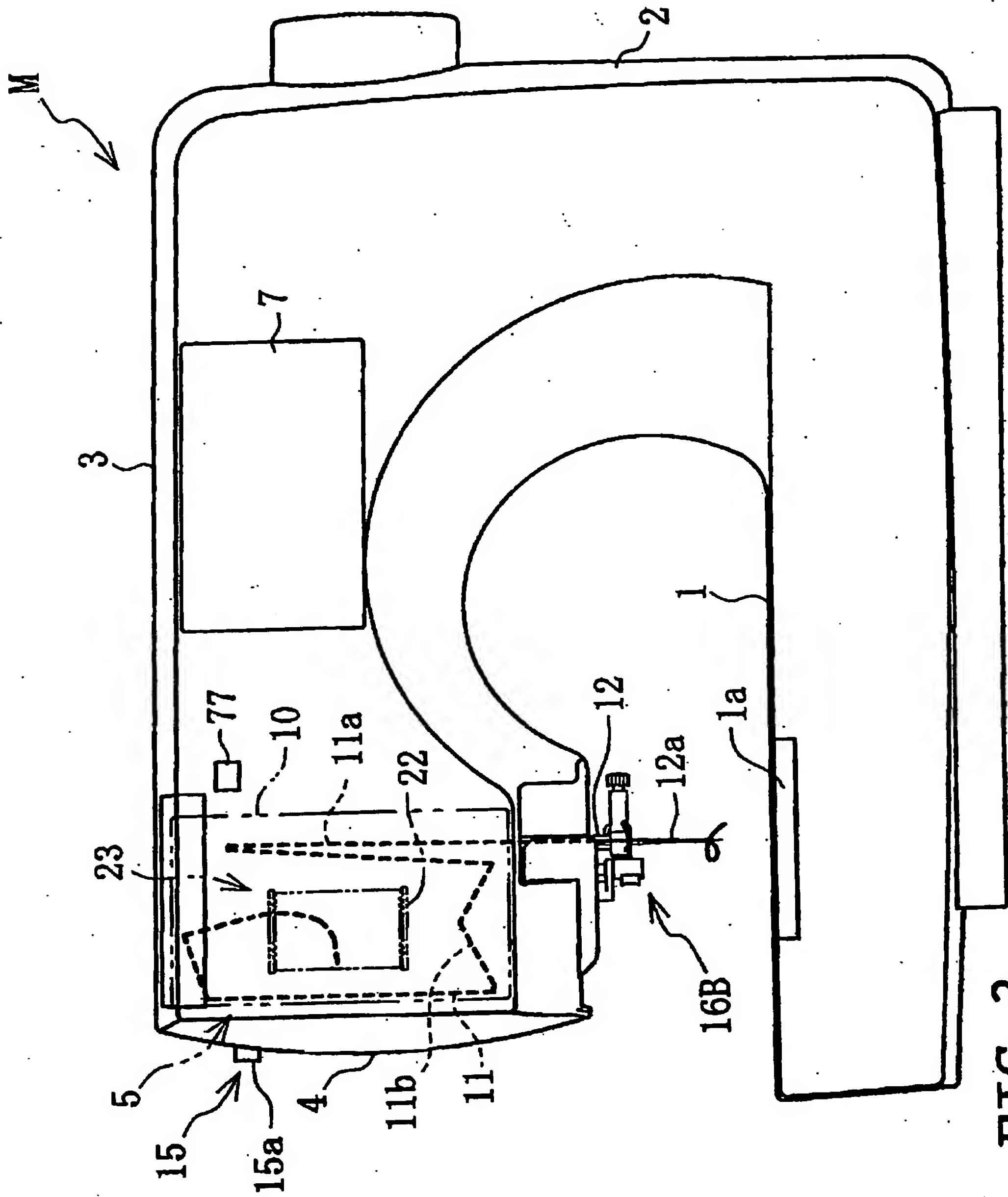
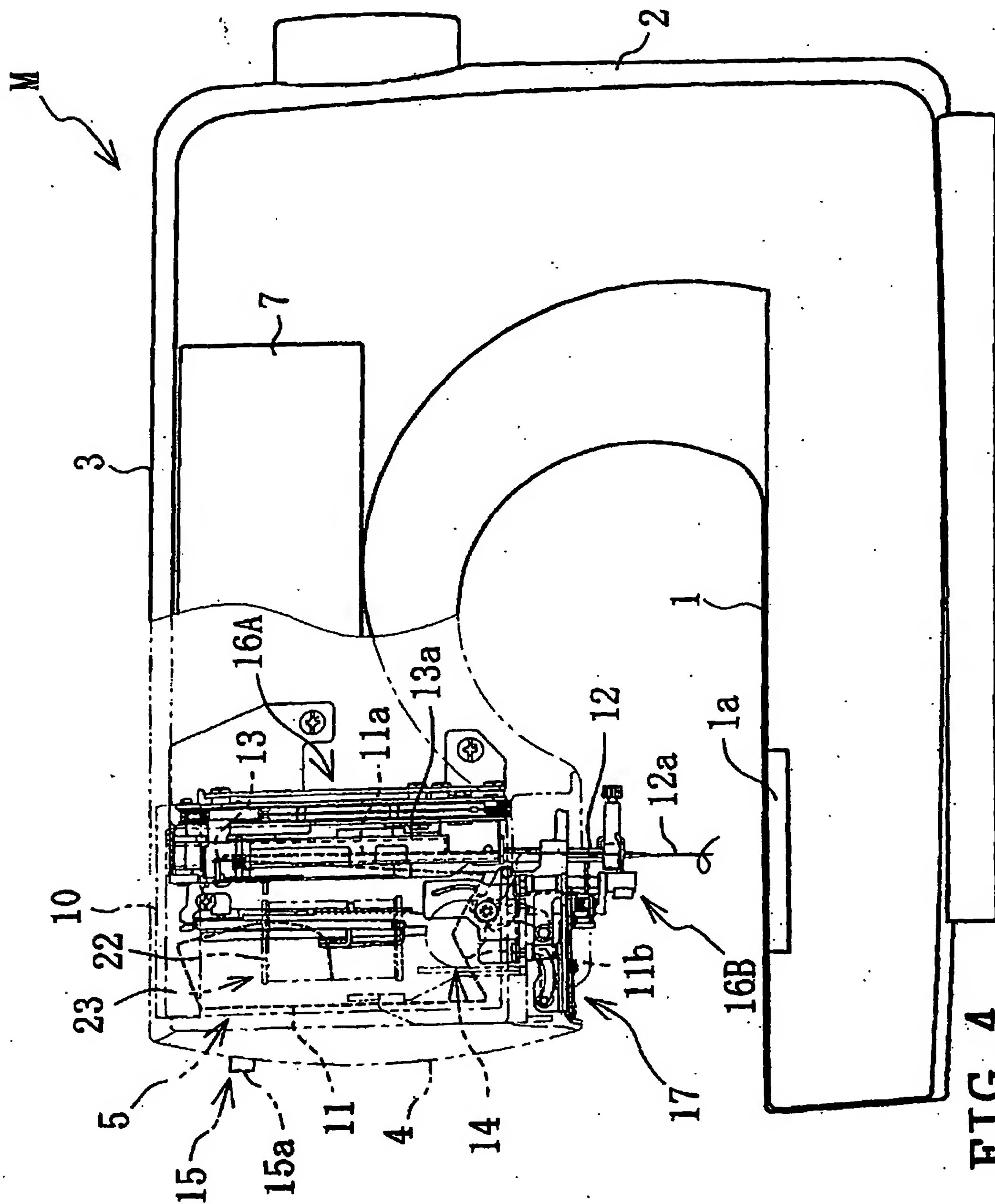


FIG. 3



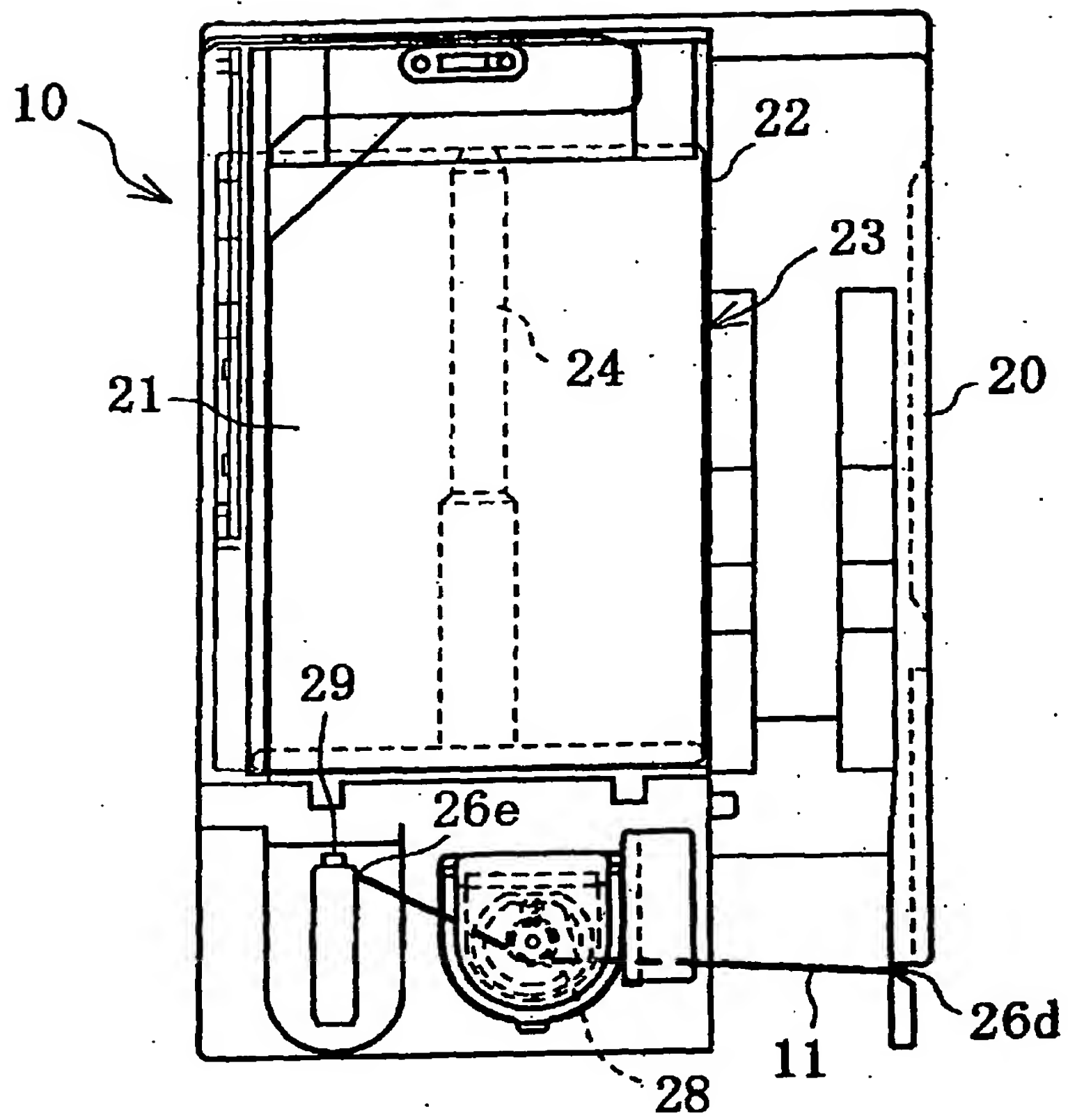


FIG. 5

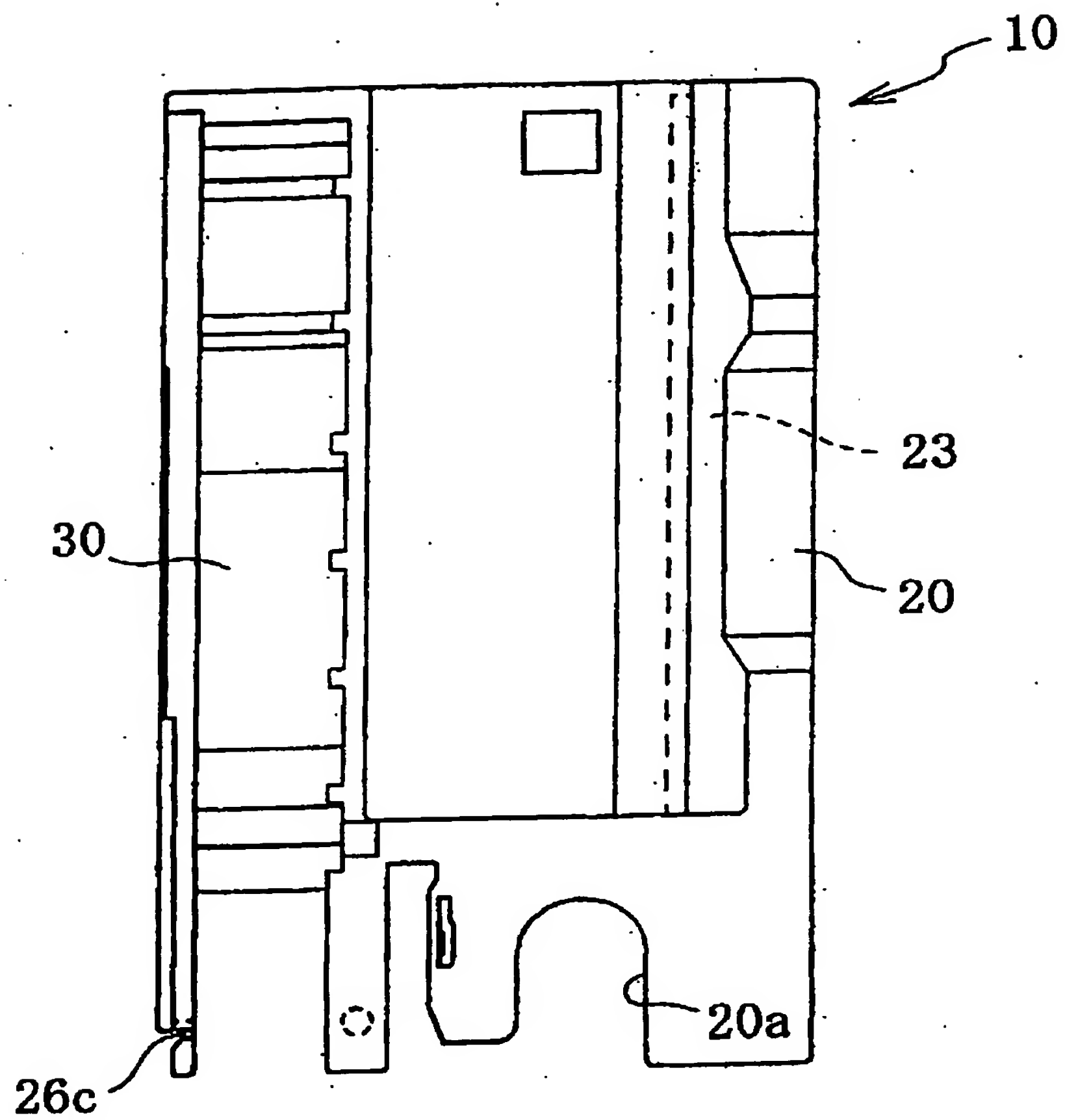


FIG. 6

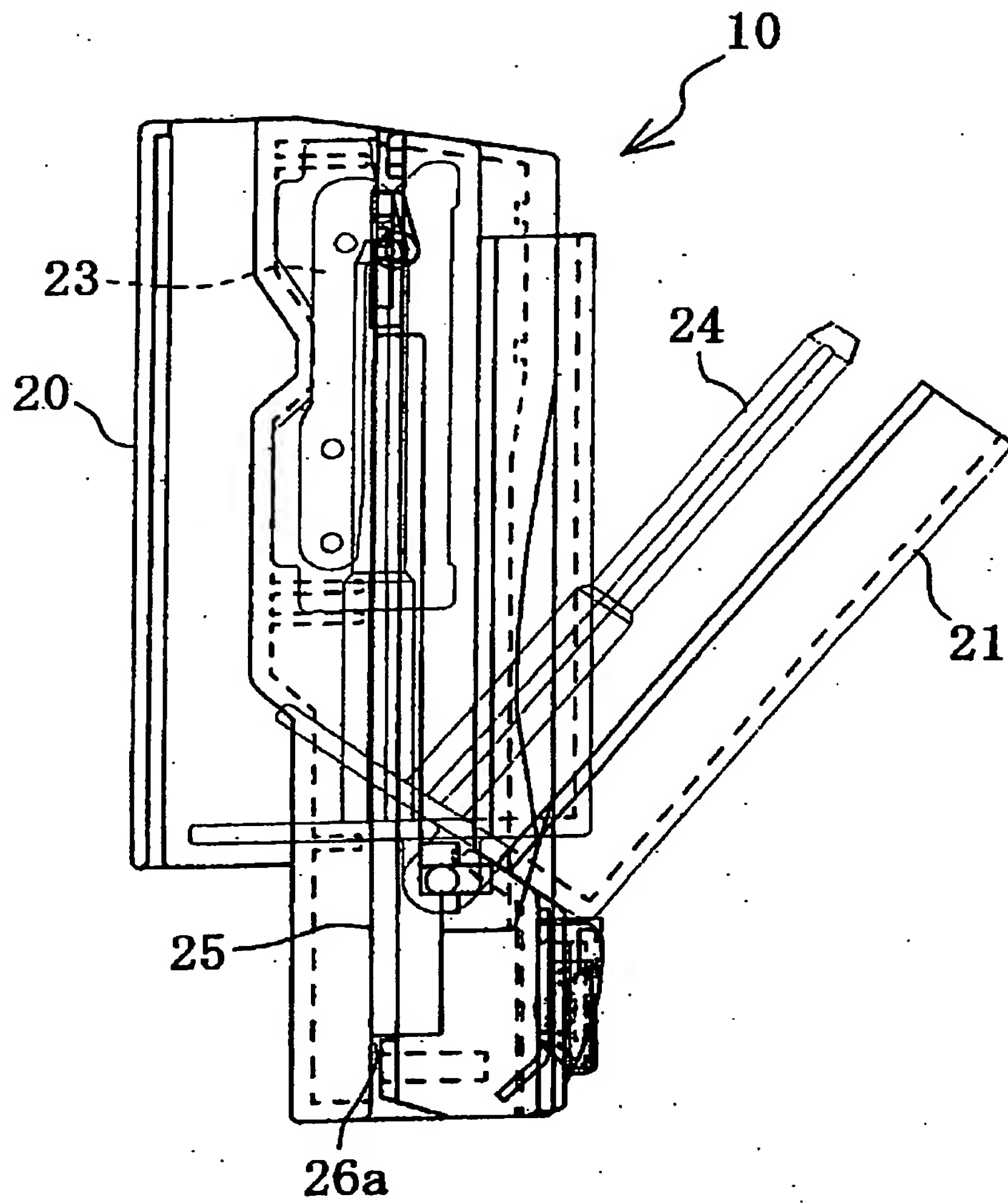


FIG. 7

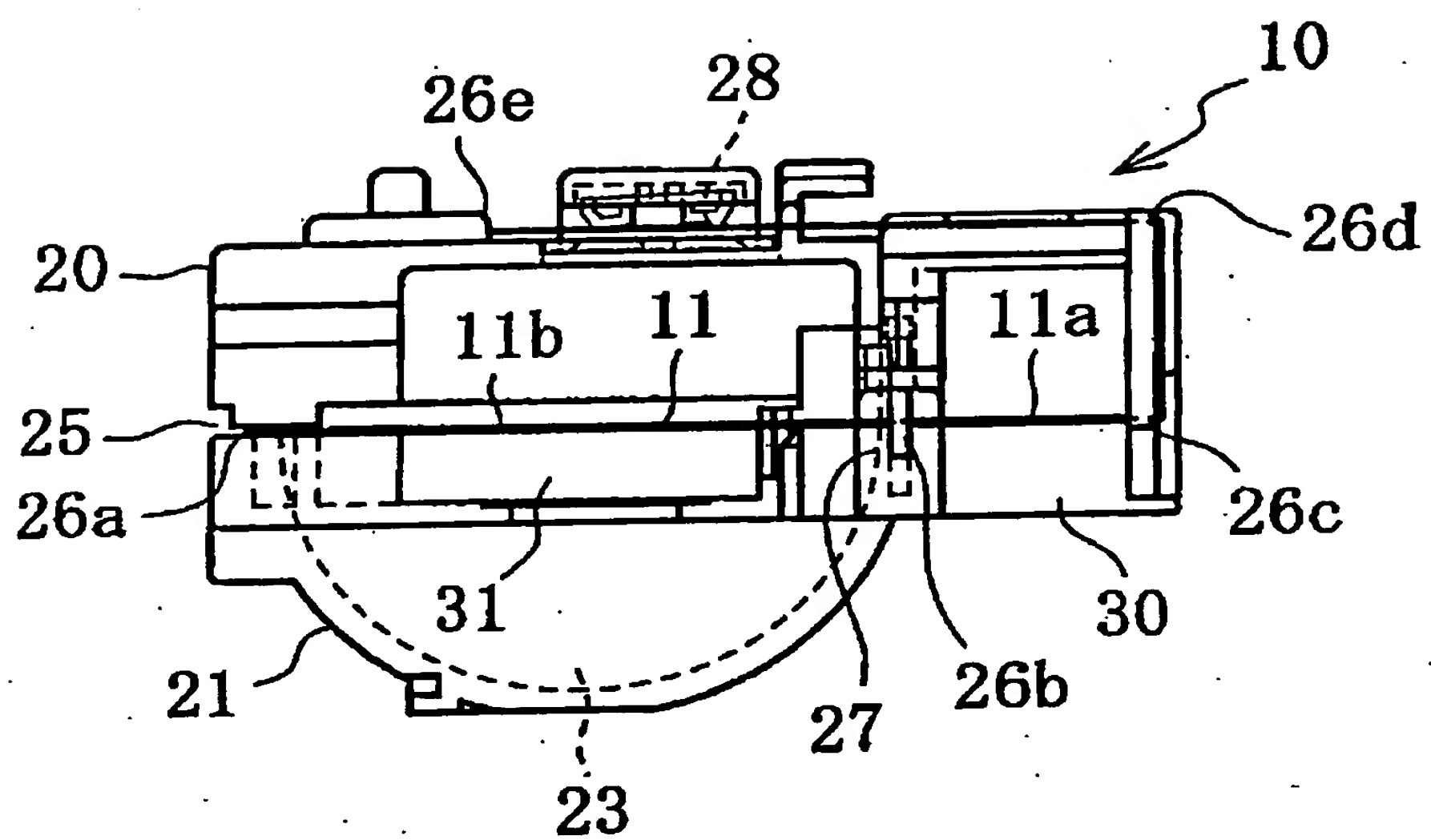


FIG. 8

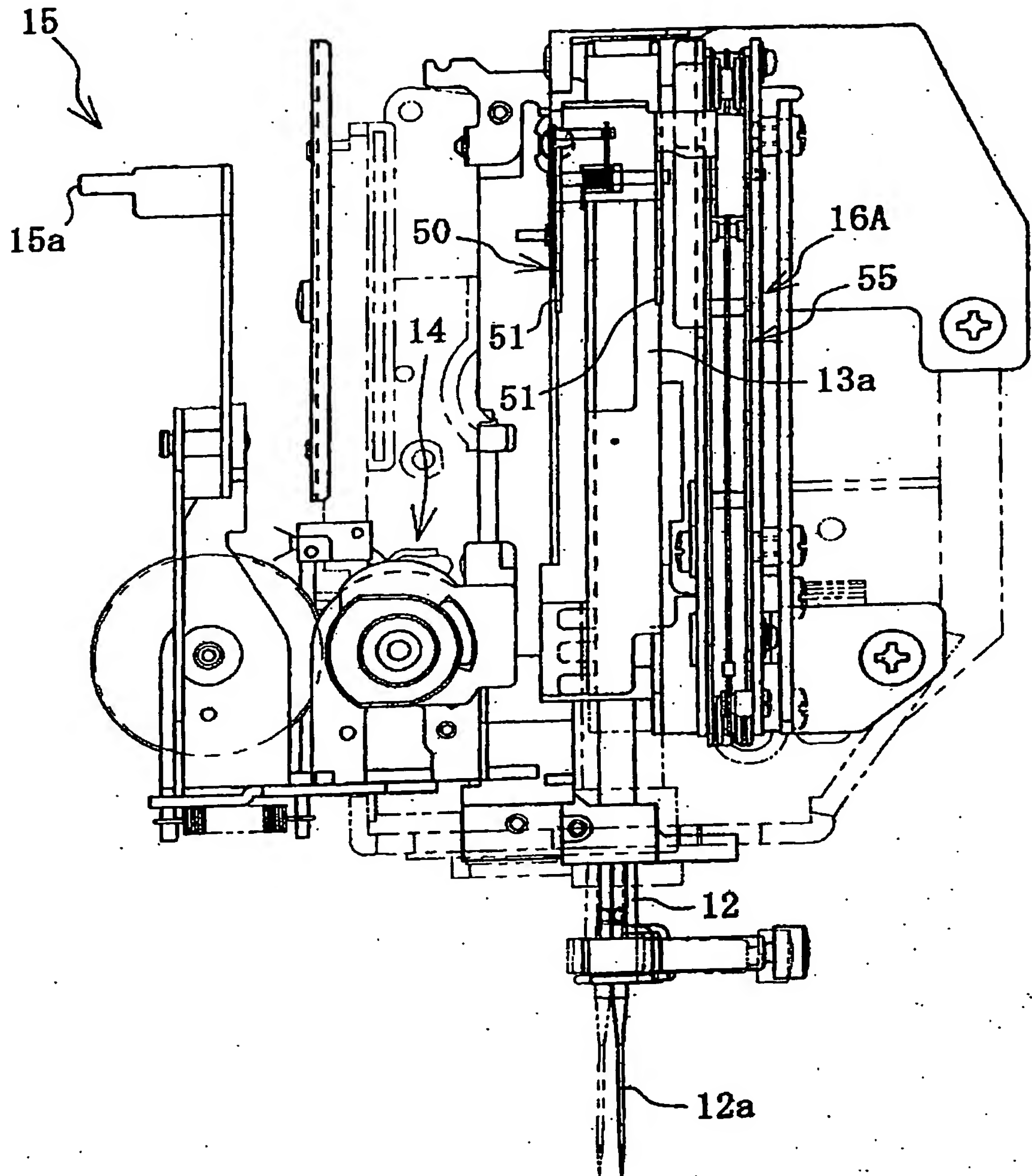


FIG. 9

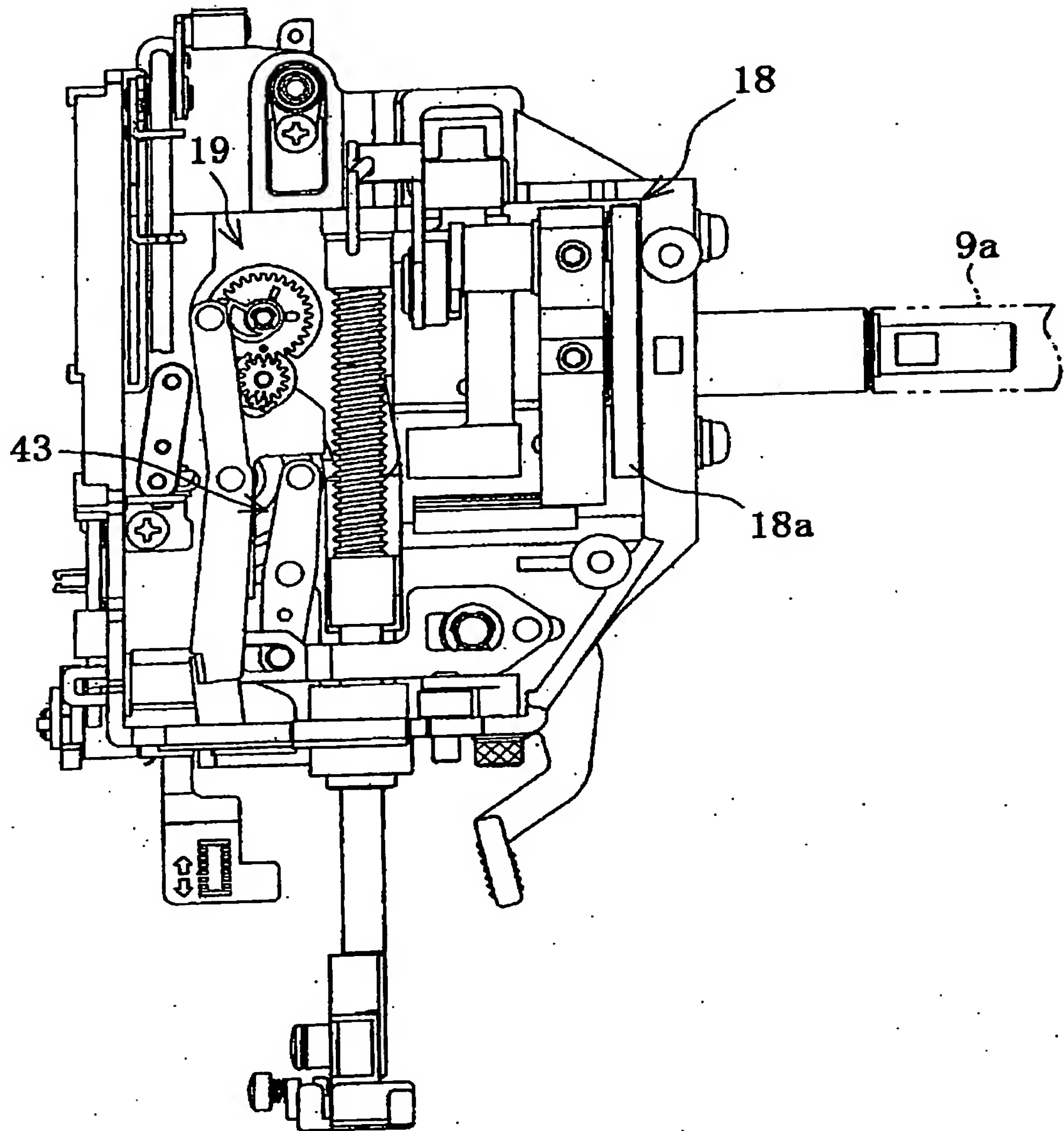


FIG. 10

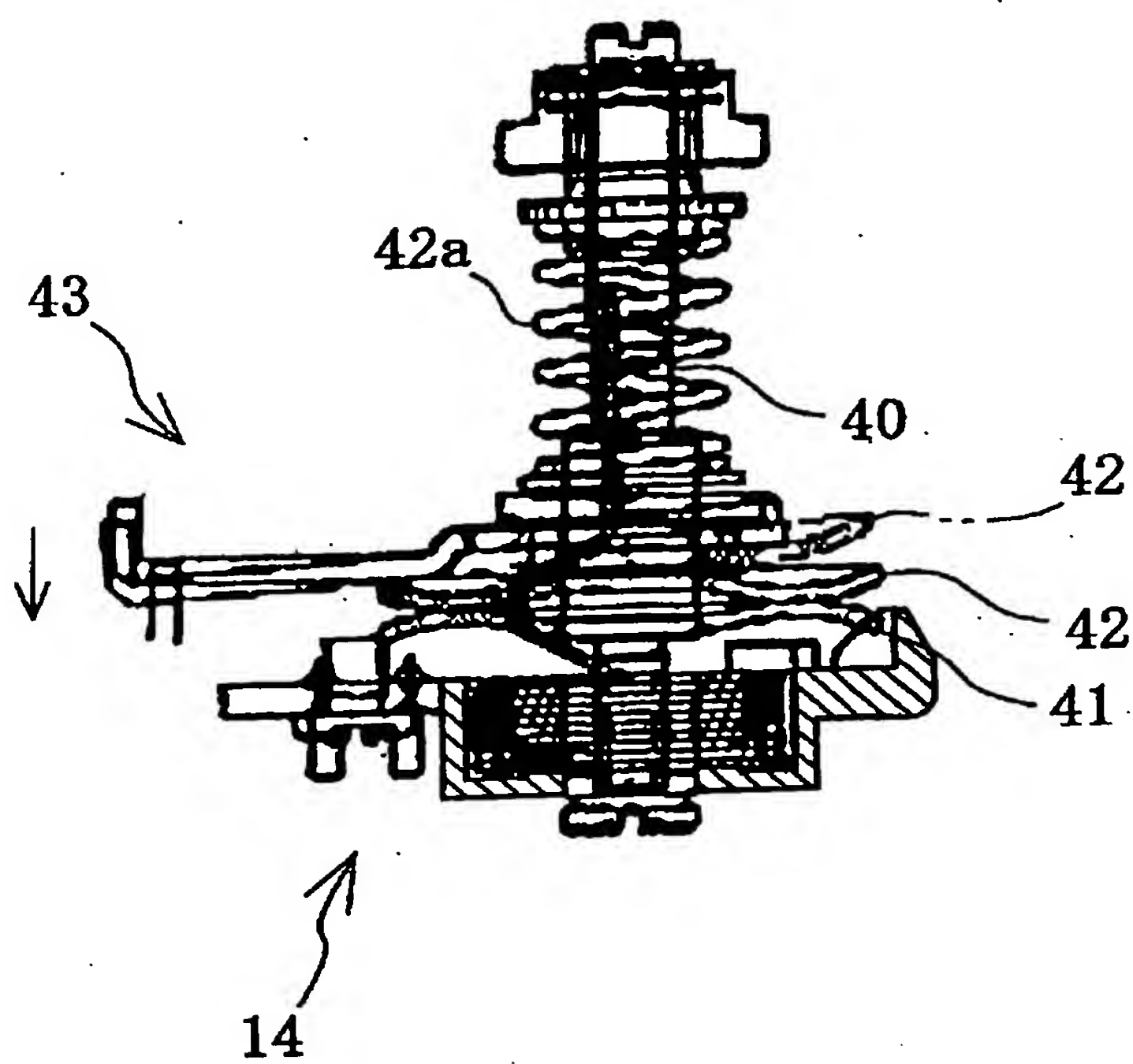


FIG. 11

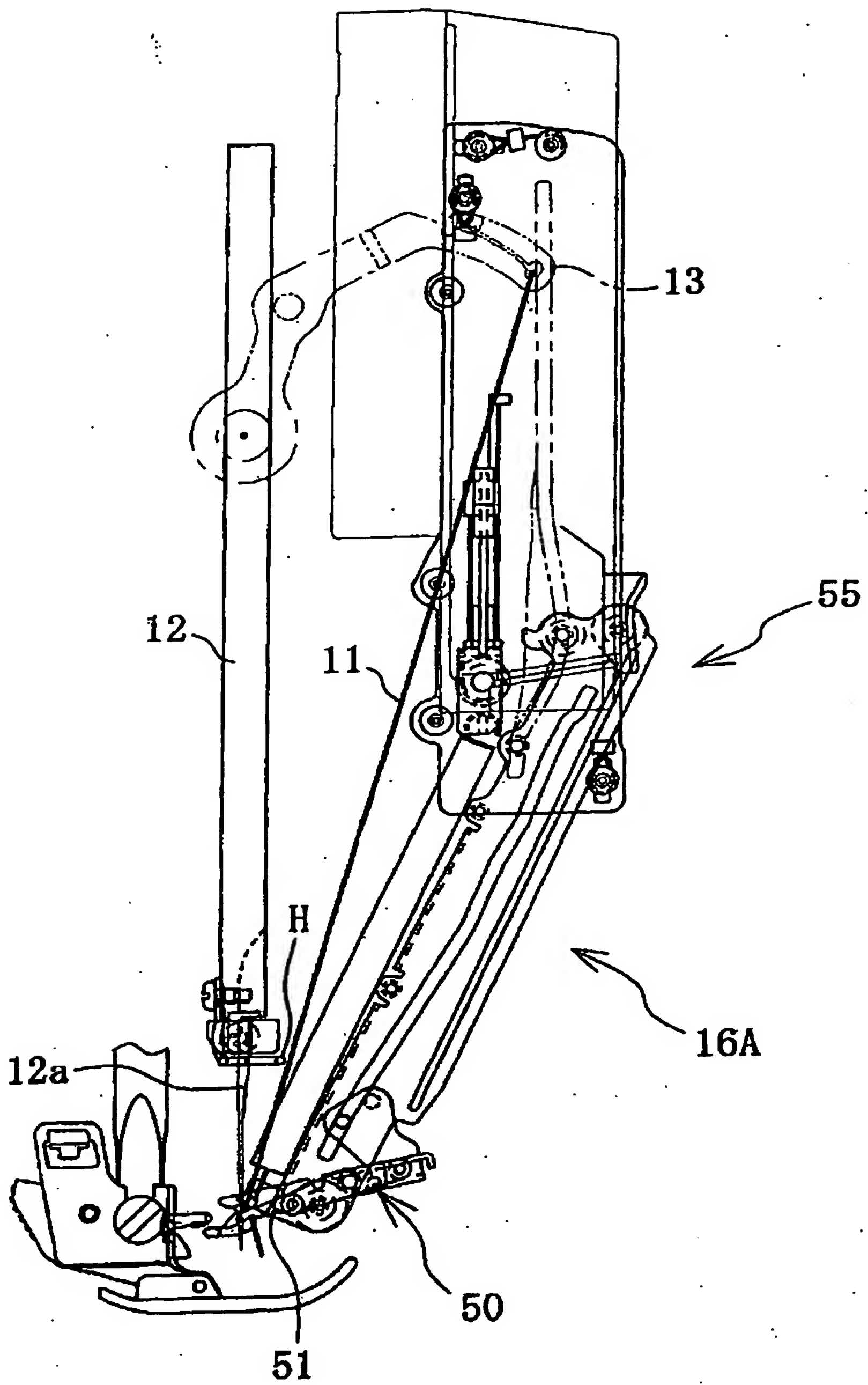


FIG. 12

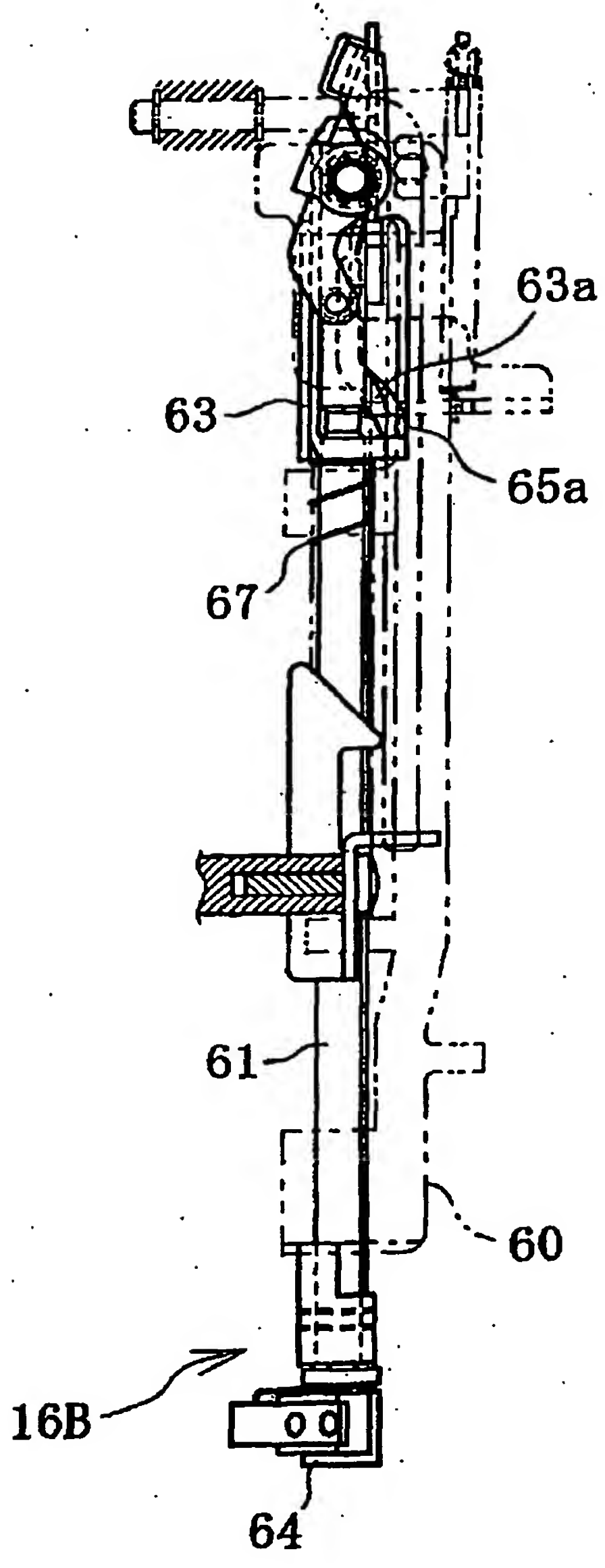


FIG. 13A

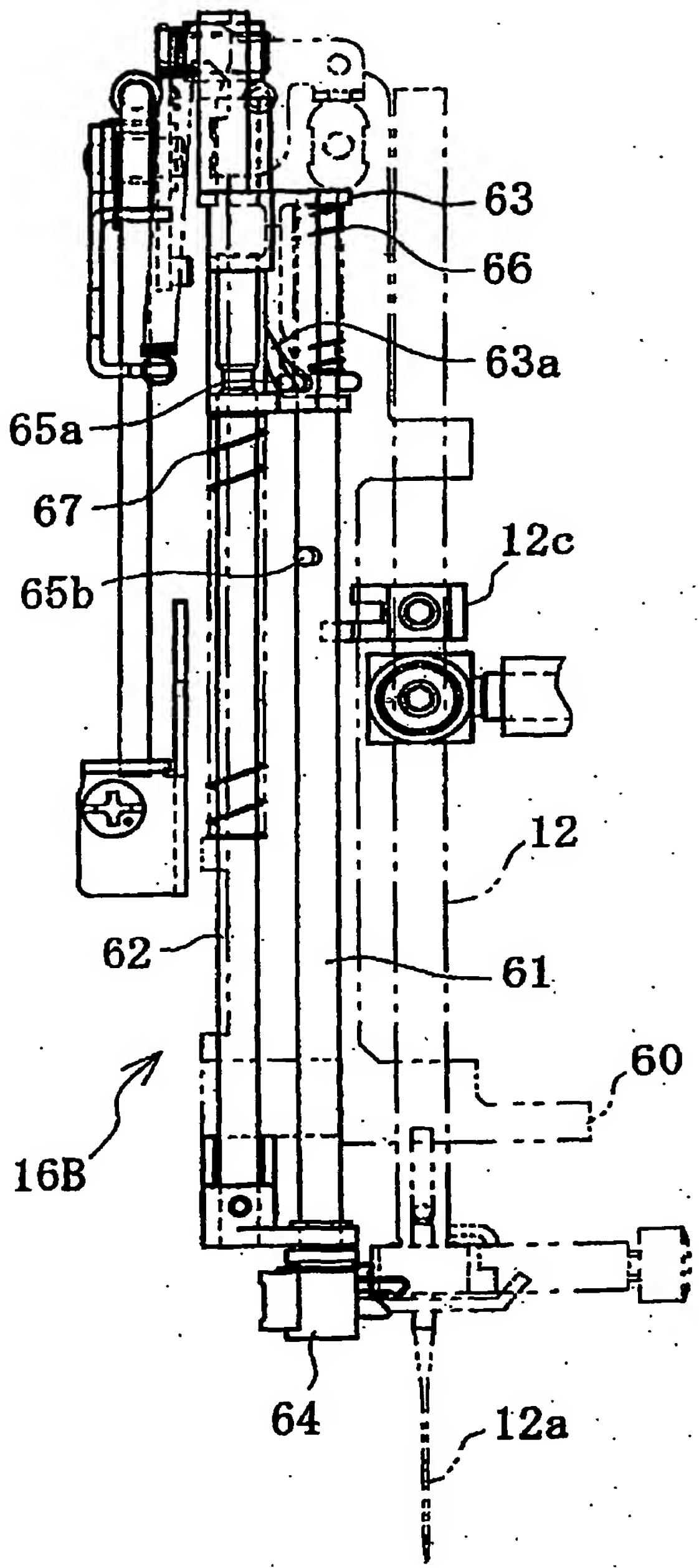


FIG. 13B

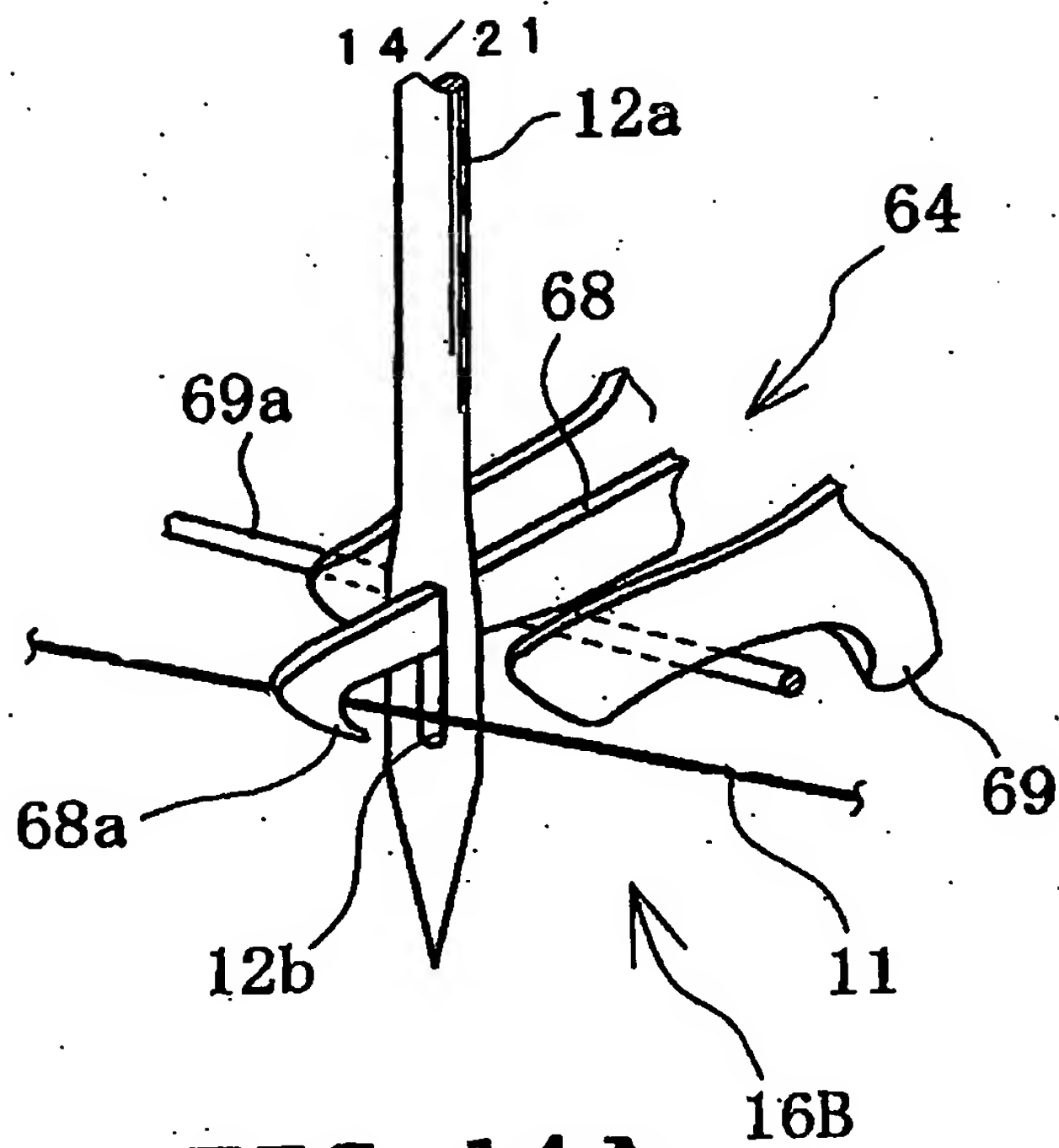


FIG. 14 A

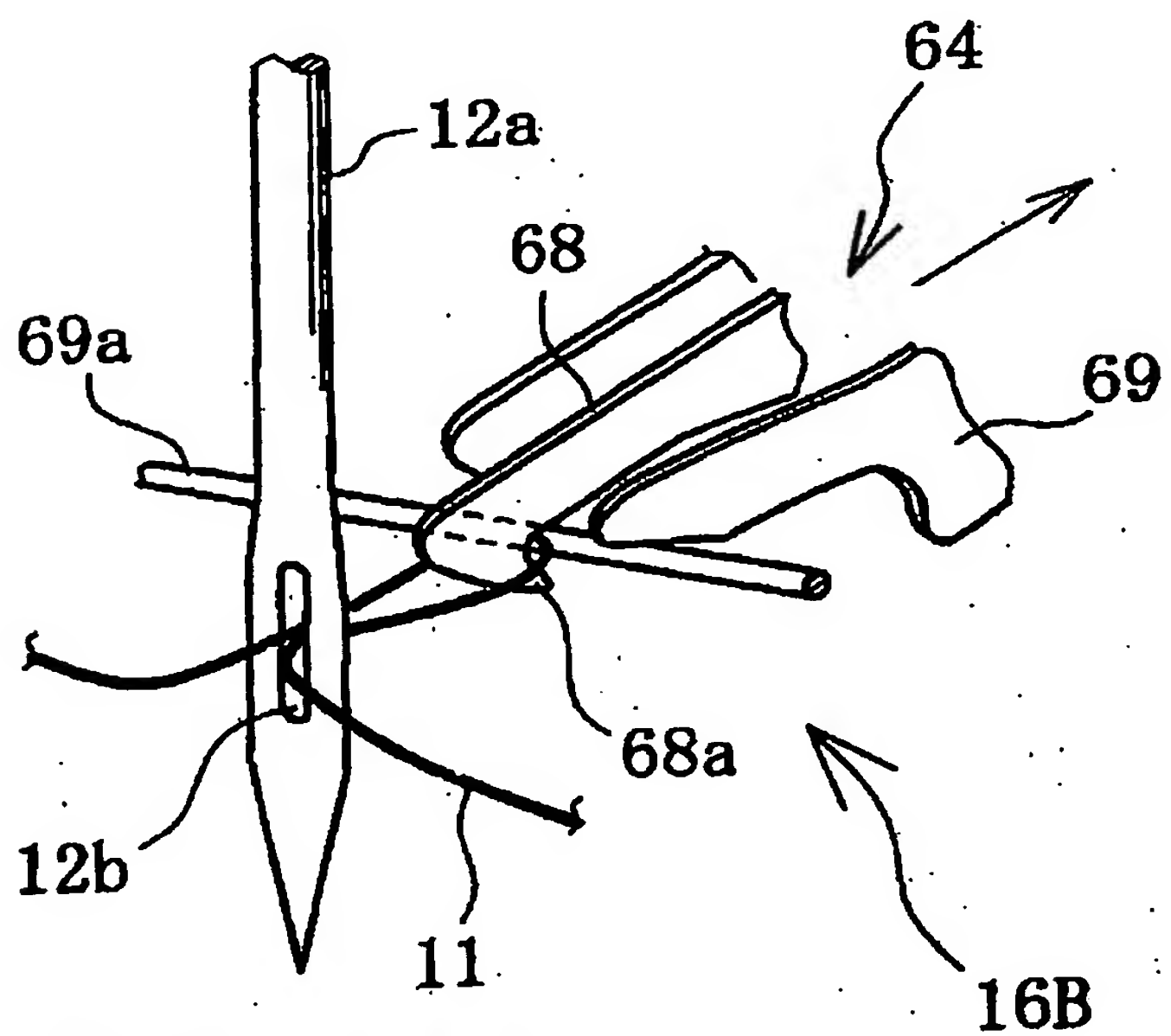


FIG. 14 B

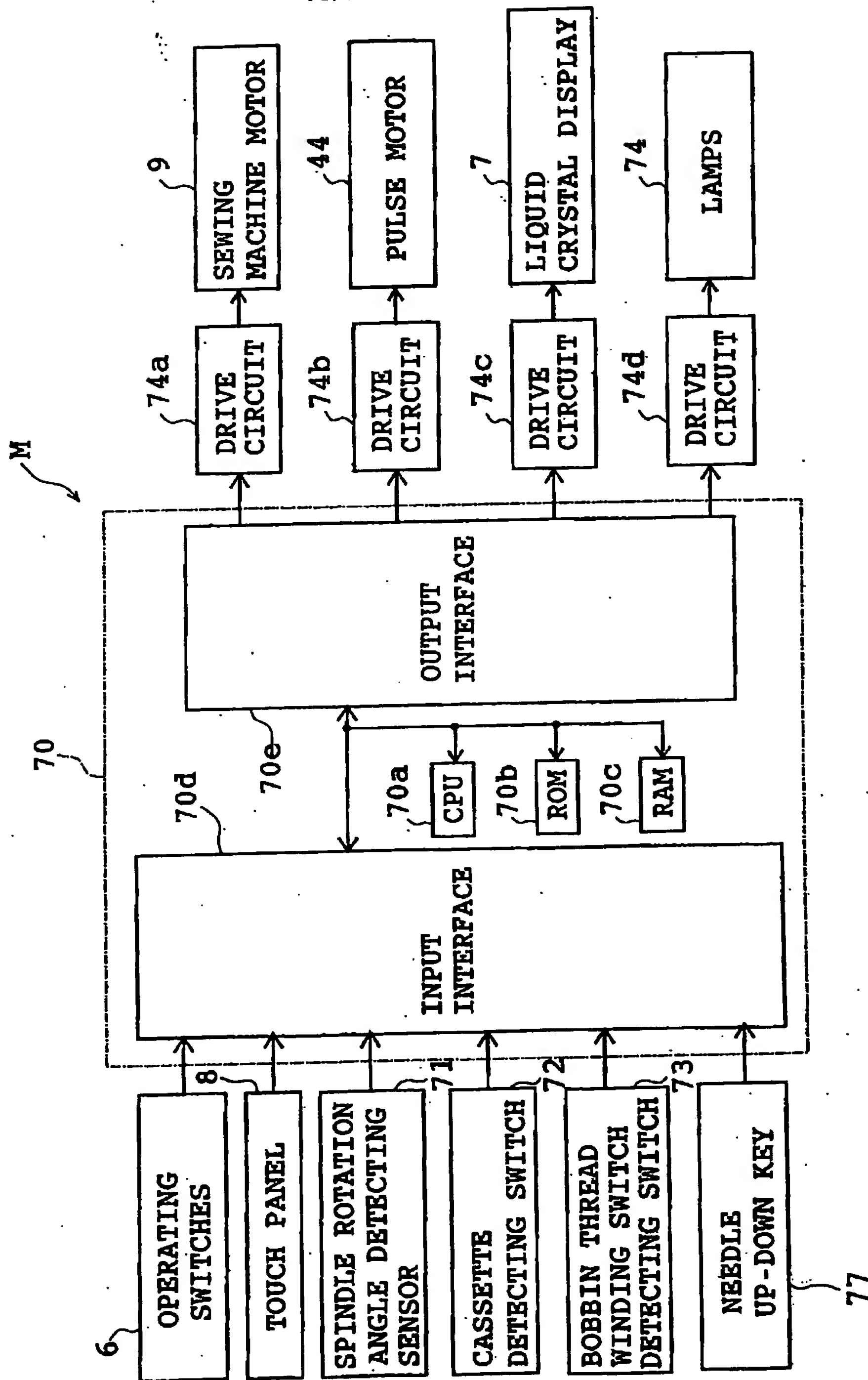


FIG. 15

70b

SEWING MACHINE CONTROL PROGRAM

- SEWING PROGRAM
- CASSETTE ATTACHMENT/
DETACHMENT CONTROL PROGRAM
- NEEDLE BAR POSITION CONTROL PROGRAM
- DISPLAY CONTROL PROGRAM

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FIG. 16

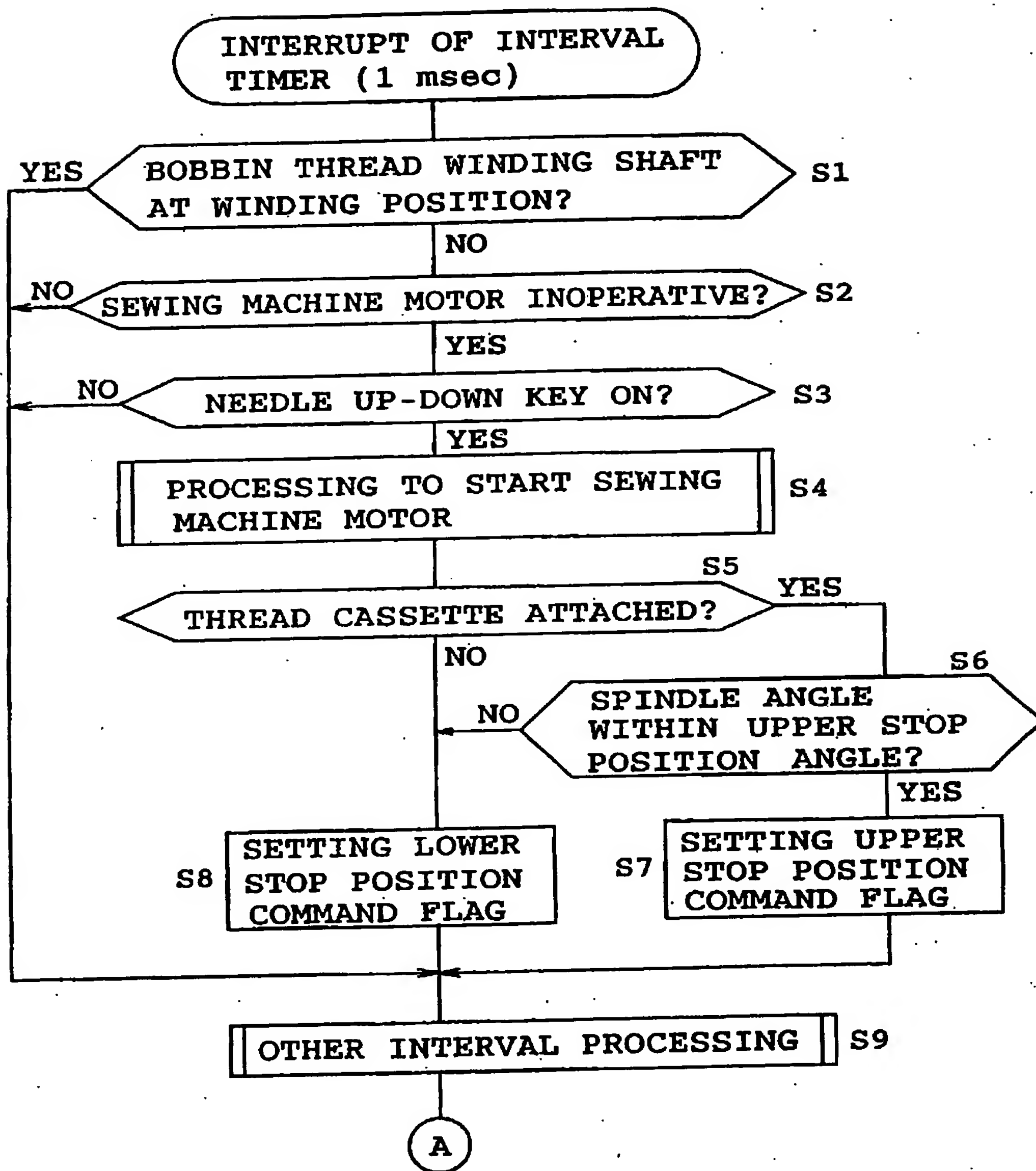


FIG. 17

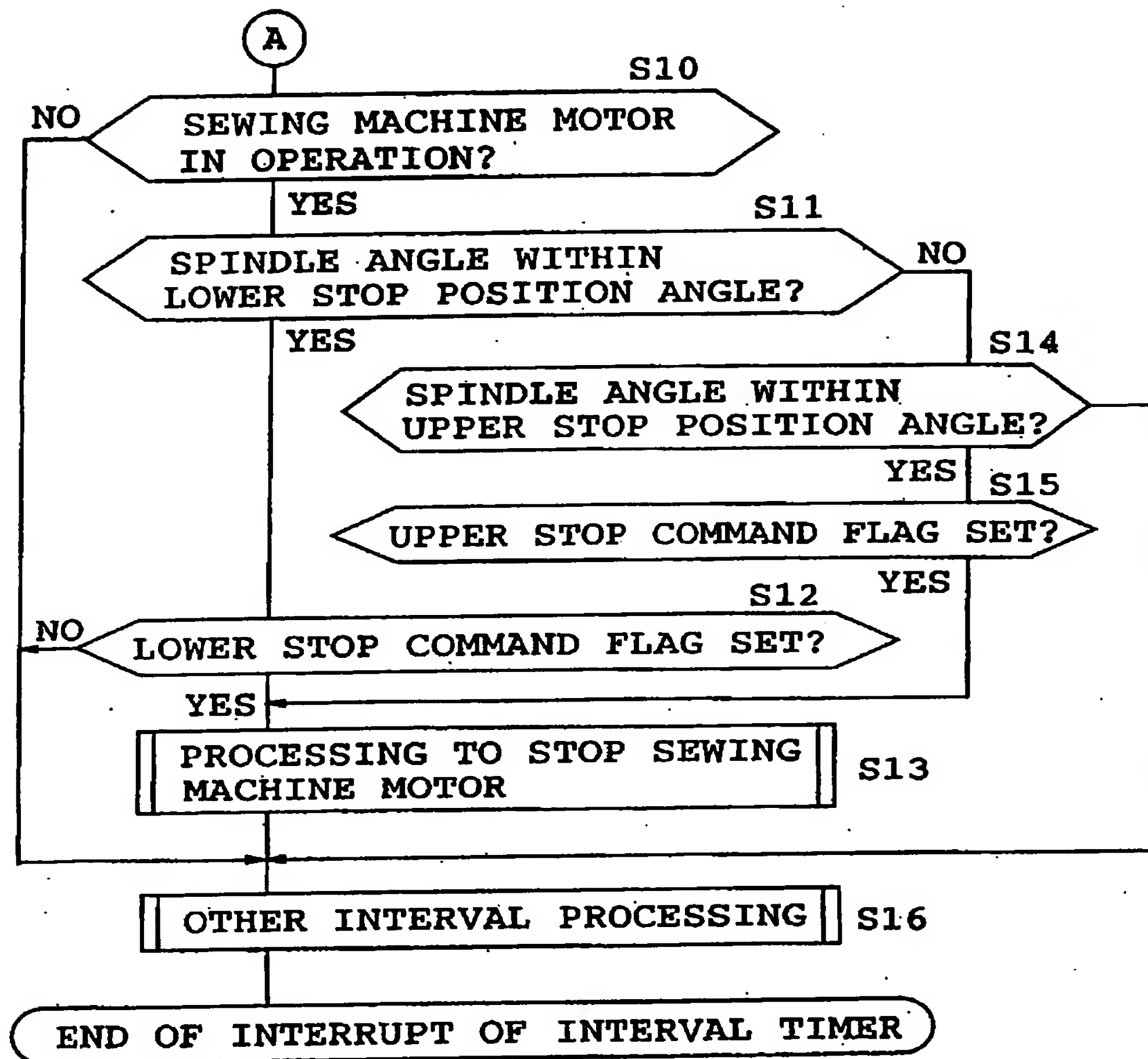


FIG. 18

SPINDLE ANGLE IN OPERATION OF NEEDLE UP-DOWN KEY					
THREAD CASSETTE IN OPERATION OF NEEDLE UP-DOWN KEY	ATTACHED	UPPER STOP POSITION	UPPER STOP POSITION { LOWER STOP POSITION	LOWER STOP POSITION	LOWER STOP POSITION { UPPER STOP POSITION
		LOWER STOP POSITION	LOWER STOP POSITION	UPPER STOP POSITION	UPPER STOP POSITION
	UNATTACHED	(LOWER STOP POSITION) ↓ UPPER STOP POSITION	(LOWER STOP POSITION) ↓ UPPER STOP POSITION	UPPER STOP POSITION	UPPER STOP POSITION

FIG. 19

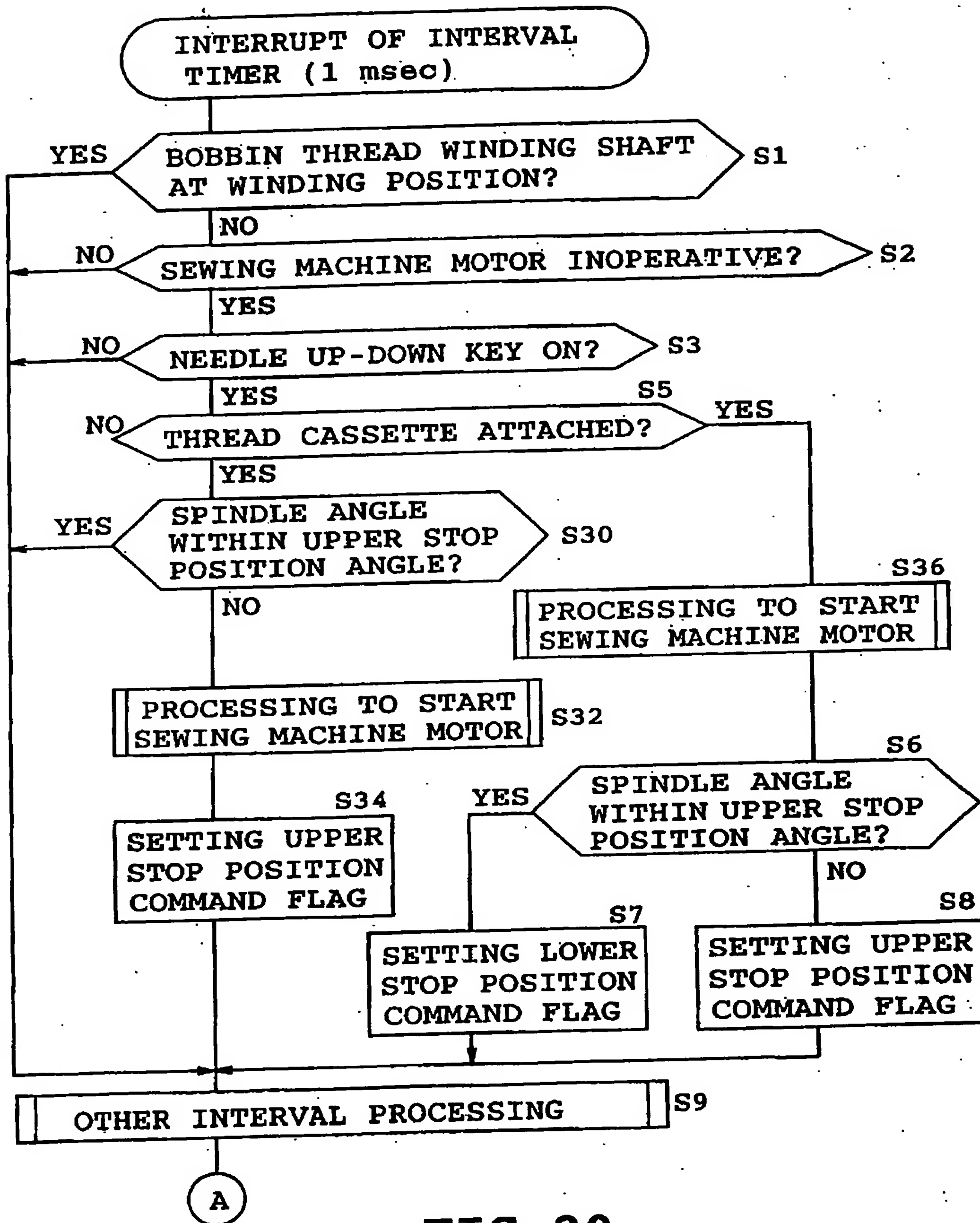


FIG. 20

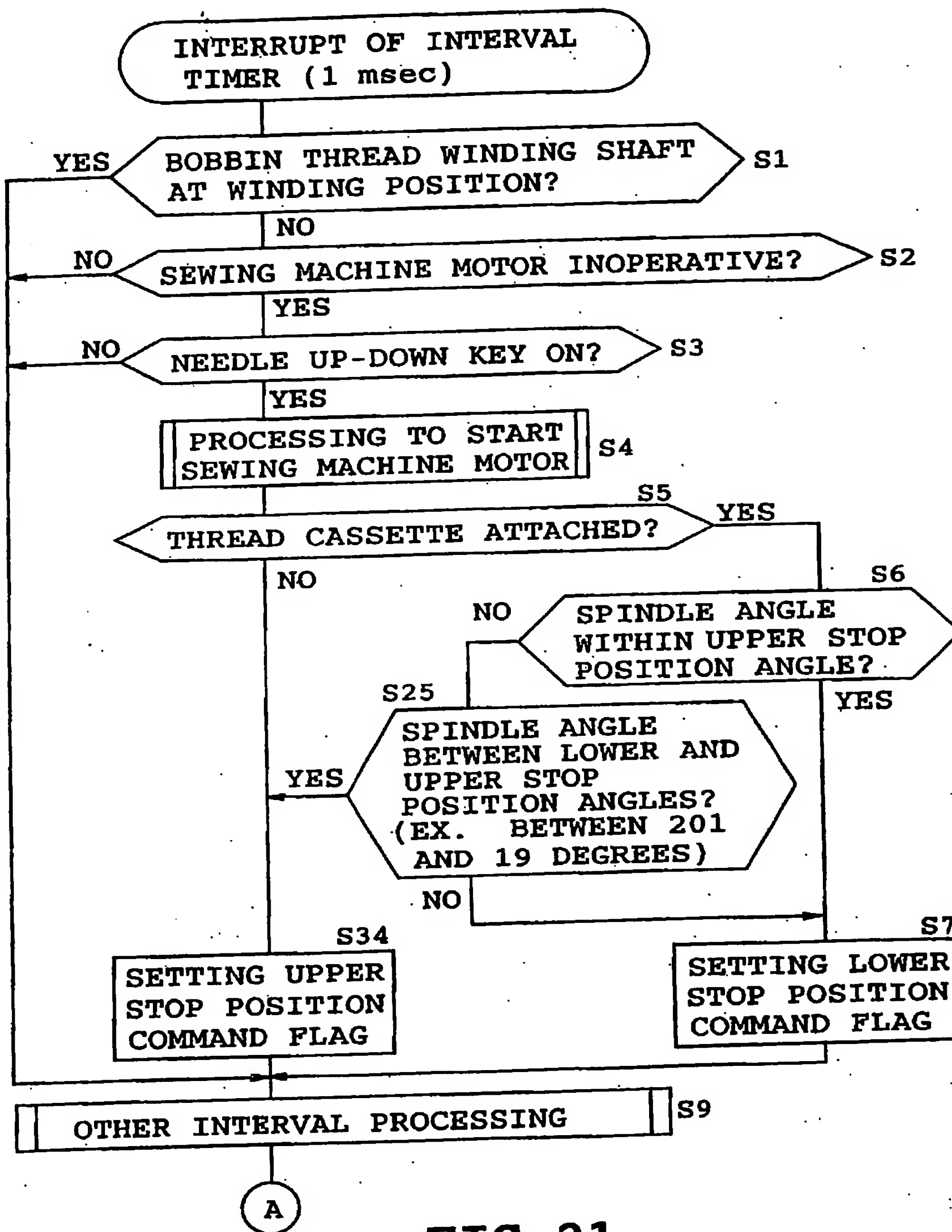


FIG. 21